

<u>Cellular Property</u>	<u>Is it the same after removal from the cell?</u>
1. DNA, RNA	Yes (sequence, quantity)
2. Protein	Likely (identity, conc.)
3. Activity	Usually Not

Table III
Cellular Properties Are
Distinguished By Their Timescales

DNA & RNA Minutes - Years
“Genomics”

Protein Seconds - Hours
“Proteomics”

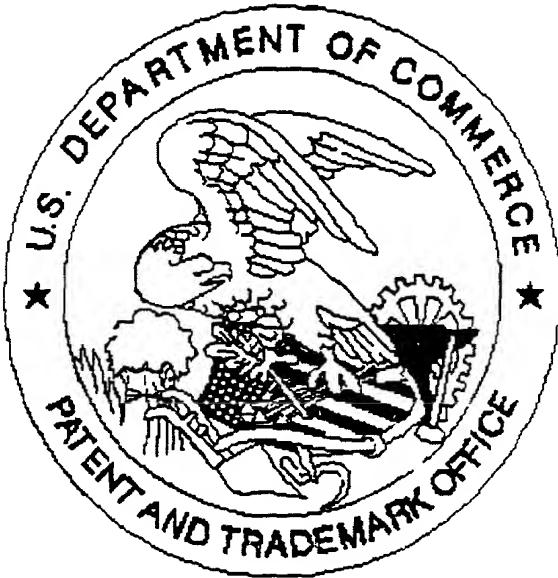
Activity Milliseconds - Seconds
“Signaling”

Table III

A Sampling Of Available Technologies

Field	Property	Technologies
1. Genomics	DNA, RNA	DNA Arrays
2. Proteomics	Protein Identity & Conc.	Protein Gels/Arrays Mass Spec.
3. Signaling	Activity	GFP-Based Methods Critical Need

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